Journal of Nuclear Materials 200 (1993) 435–438
North-Holland

journal of nuclear materials

Author index

Abrudeanu, M., see Archambault, P. 200 (1993) 162
Akaishi, K., see Mori, T. 200 (1993) 385
Akiba, M., see Tanabe, T. 200 (1993) 120
Ananiev, V.D., see Künstler, K. 200 (1993) 169
Andrén, H.-O., see Wadman, B. 200 (1993) 207
Araki, M., see Tanabe, T. 200 (1993) 120
Archambault, P., M. Abrudeanu et B. Colleret, Influence de l'oxydation et de l'état structural sur les propriétés thermo-physiques d'un alliage à base de zirconium 200 (1993) 162
Atanassova, E.D. and L.I. Popova, Plasma nitridation of thin SiO_2 films: AES, ELS and IR study 200 (1993) 421

Baldwin, D.L., see Smith, H.D. 200 (1993) 128
Banno, T., see Tsuzuki, K. 200 (1993) 291
Behrisch, R., see Coad, J.P. 200 (1993) 360
Beulens, J.J., see Buuron, A.J.M. 200 (1993) 430
Bhaduri, A.K., see Ray, S.K. 200 (1993) 70
Bharadwaj, S.R., see Samant, M.S. 200 (1993) 157
Boffito, C., see Venkataramani, N. 200 (1993) 343
Bonizzoni, G., see Venkataramani, N. 200 (1993) 343
Borgstedt, H.U., see Mishra, M.P. 200 (1993) 244
Boucher, C., see Terreault, B. 200 (1993) 50
Bradley III, J.T., see Suzuki, S. 200 (1993) 265
Bratkovskii, A.M., see Kapinos, V.G. 200 (1993) 108
Brooker, P., see Terreault, B. 200 (1993) 50
Buuron, A.J.M., G.J. Meeusen, J.J. Beulens, M.C.M. van de Sanden and D.C. Schram, Fast deposition of amorphous carbon and silicon layers 200 (1993) 430

Cardoso, P.E., see Sabioni, A.C.S. 200 (1993) 144
Cekic, M., see Den Hartog, D.J. 200 (1993) 177
Chen, Y., see Ding, L. 200 (1993) 305
Choo, W.K., see Song, K.W. 200 (1993) 41
Coad, J.P., R. Behrisch, L. de Kock, A. Koch, F. Weschenfelder, P. Wienhold and R. Wilhelm, Assessment techniques for measurement of target erosion/redeposition in large tokamaks 200 (1993) 360
Coad, J.P., B. Farmery, J. Linke and E. Wallura, Experience with boron-carbide coated target tiles in JET 200 (1993) 389
Colleret, B., see Archambault, P. 200 (1993) 162
Conte, A., see Venkataramani, N. 200 (1993) 343
Côté, A., see Terreault, B. 200 (1993) 50
Crawford, J.F., see Suzuki, S. 200 (1993) 265
Cunningham, M.E., M.D. Freshley and D.D. Lanning, Fission gas release during power bumping at high burnup 200 (1993) 24

Dayananda, M.A., see Keiser, Jr., D.D. 200 (1993) 229
de Almeida, F.R., R. Katsuhiro Yamamoto and H.S. Maciel, Reactive ion etching of PECVD silicon nitride in SF_6 plasma 200 (1993) 371
Décoste, R., see Terreault, B. 200 (1993) 50
de Graaf, M.J., R. Severens, M.J.F. van de Sande, M.C.M. van de Sanden, D.C. Schram, H.J.M. Meijers and H. Kars, Hydrogen atom cleaning of archeological artefacts 200 (1993) 380
de Kock, L., see Coad, J.P. 200 (1993) 360
de la Cal, E. and F.L. Tabares, Kinetics of hydrocarbon formation in a-C:H film deposition plasmas 200 (1993) 426
Den Hartog, D.J., M. Cekic, G. Fiksel, S.A. Hokin, R.D. Kendrick, S.C. Prager and M.R. Stoneking, B_4C solid target boronization of the MST reversed-field pinch 200 (1993) 177
Dharwadkar, S.R., see Samant, M.S. 200 (1993) 157
Dietz, K.J. and the JET Team, Vacuum problems and solutions related to the tritium experiment at JET 200 (1993) 317
Ding, L., Y. Chen and Z.Y. Hua, Laser-driven pulsed emission and plasma formation of Cs_3Sb photocathodes 200 (1993) 305
Dinner, P.J., D. Murdoch and M. Iseli, Combined cryogenic and mechanical pump for NET torus exhaust 200 (1993) 332

Erdweg, M., see Philipps, V. 200 (1993) 355
Escrivão, M.L., A.M.C. Moutinho and M.J.P. Maneira, Planar magnetron glow discharge on copper – The Thornton relation revisited 200 (1993) 300
Esser, H.G., see Terreault, B. 200 (1993) 50
Etoh, Y. and S. Shimada, Neutron irradiation effects on intermetallic precipitates in Zircaloy as a function of fluence 200 (1993) 59

Farmery, B., see Coad, J.P. 200 (1993) 389
Feoktistov, V.A., D.V. Lopaev, K.S. Klopovsky, A.M. Popov, O.B. Popovicheva, A.T. Rakhimov and T.V. Rakhimova, Low pressure RF discharge in electronegative gases for plasma processing 200 (1993) 309
Fiksel, G., see Den Hartog, D.J. 200 (1993) 177
Forcey, K.S., A. Perujo, F. Reiter and P.L. Lolli-Ceroni, The formation of tritium permeation barriers by CVD 200 (1993) 417
Frees, G., see Mishra, M.P. 200 (1993) 244
Freshley, M.D., see Cunningham, M.E. 200 (1993) 24
Fujine, M., see Tanabe, T. 200 (1993) 120
Funato, Y., see Mori, T. 200 (1993) 385

Gahl, J.M., see Suzuki, S. 200 (1993) 265
George, A.M., see Pillai, C.G.S. 200 (1993) 78
Ghezzi, F., see Venkataramani, N. 200 (1993) 343
Giesbers, J.B., see van Delft, F.C.M.J.M. 200 (1993) 366
Goedheer, W.J. and P.M. Meijer, Numerical simulation of RF discharges for plasma processing 200 (1993) 282
Gregory, B.C., see Terreault, B. 200 (1993) 50
Gürler, R. and J.N. Pratt, A computer calculation of the ternary Mo–Pd–Rh phase diagram 200 (1993) 16

Haddad, E., see Terreault, B. 200 (1993) 50
Hamada, S. and K. Hojou, An attempt to reduce radioactivity for energy-dispersive X-ray analysis 200 (1993) 149
Hanaoka, Y., see Mori, T. 200 (1993) 385
Hashimoto, M., see Nakamura, J. 200 (1993) 256
Hecht, G., see Peter, S. 200 (1993) 412
Heyne, H., see Künstler, K. 200 (1993) 169
Higashi, K., see Takagi, I. 200 (1993) 223
Hikosaka, Y., see Sugai, H. 200 (1993) 403
Hirano, Y., see Tanabe, T. 200 (1993) 120
Hojou, K., see Hamada, S. 200 (1993) 149
Hokin, S.A., see Den Hartog, D.J. 200 (1993) 177
Hood, G.M. and R.J. Schultz, Chromium diffusion in α-zirconium, Zircaloy-2 and Zr–2.5Nb 200 (1993) 141
Hua, Z.-y., see Ding, L. 200 (1993) 305

Ichimura, M., see Nakashima, Y. 200 (1993) 351
Ikegawa, H., see Kinoshita, H. 200 (1993) 296
Inutake, M., see Nakashima, Y. 200 (1993) 351
Iseli, M., see Dinner, P.J. 200 (1993) 332

JET Team, see Dietz, K.J. 200 (1993) 317
Jung, P., Irradiation creep of 20% cold-worked copper 200 (1993) 138

Kaltofen, R. and G. Weise, Influence of low-energy bombardment of an RF magnetron sputtering discharge on texture formation and stress in ZnO films 200 (1993) 375
Kapinos, V.G., A.A. Zakharov, Yu.N. Osetsky, A.V. Smirnov and A.M. Bratkovskii, The role of the high-energy cascade thermal stage in local ordering of an amorphous metal 200 (1993) 108
Kariyama, H., see Takagi, I. 200 (1993) 223
Kars, H., see de Graaf, M.J. 200 (1993) 380
Katsuhiro Yamamoto, R., see de Almeida, F.R. 200 (1993) 371
Kawasaki, S., see Nakamura, J. 200 (1993) 256
Keiser, Jr., D.D. and M.A. Dayananda, Interdiffusion between U–Zr fuel and selected Fe–Ni–Cr alloys 200 (1993) 229
Kendrick, R.D., see Den Hartog, D.J. 200 (1993) 177
Kerkar, A.S., see Samant, M.S. 200 (1993) 157
Kinbara, A., see Tsuzuki, K. 200 (1993) 291
Kinoshita, H. and H. Ikegawa, Optical emission measurement of high-uniformity and high-density O_2 supermagnetron plasma 200 (1993) 296
Kirpikov, E.B., see Künstler, K. 200 (1993) 169
Klopovsky, K.S., see Feoktistov, V.A. 200 (1993) 309
Koch, A., see Coad, J.P. 200 (1993) 360
Kubota, Y., see Tanabe, T. 200 (1993) 120
Kubota, Y., see Mori, T. 200 (1993) 385
Kulpin, J.V., see Künstler, K. 200 (1993) 169
Künstler, K., H.-J. Lang, H. Heyne, V.D. Ananiev, E.B. Kirpikov and Ju.V. Kulpin, Monitoring and control of impurities in the primary circuit of the IBR-2 reactor 200 (1993) 169

LaMarche, P., see Langley, R.A. 200 (1993) 326
Lameiras, F.S., see Sabioni, A.C.S. 200 (1993) 144
Lang, H.-J., see Künstler, K. 200 (1993) 169
Langley, R.A. and P. LaMarche, Vacuum pumping requirement considerations for future fusion devices 200 (1993) 326
Lanning, D.D., see Cunningham, M.E. 200 (1993) 24
Linke, J., see Coad, J.P. 200 (1993) 389
Liu-Hinz, C., see Terreault, B. 200 (1993) 50
Lolli-Ceroni, P.L., see Forcey, K.S. 200 (1993) 417
Lopaev, D.V., see Feoktistov, V.A. 200 (1993) 309

Maciel, H.S., see de Almeida, F.R. 200 (1993) 371
Mai, H.H., see Terreault, B. 200 (1993) 50
Maneira, M.J.P., see Escrivão, M.L. 200 (1993) 300
Mannan, S.L., see Mishra, M.P. 200 (1993) 244
Matsui, T., M. Ohkawa, R. Sasaki and K. Naito, Dissolution of the simulated fission-produced Mo–Ru–Rh–Pd alloys in boiling nitric acid solution 200 (1993) 11
Maziasz, P.J., Void swelling resistance of phosphorus-modified austenitic stainless steels during HFIR irradiation at 300–500°C to 57 dpa 200 (1993) 90
Meeusen, G.J., see Buuron, A.J.M. 200 (1993) 430
Meijer, P.M., see Goedheer, W.J. 200 (1993) 282
Meijers, H.J.M., see de Graaf, M.J. 200 (1993) 380

THE PAPER AND INK USED IN THE ORIGINAL PUBLICATION MAY AFFECT THE QUALITY OF THE MICROFORM EDITION.

Michaud, D., see Terreault, B. 200 (1993) 50
Mishra, M.P., H.U. Borgstedt, G. Frees, B. Seith, S.L. Mannan and P. Rodriguez, Microstructural aspects of creep–rupture life of Type 316L(N) stainless steel in liquid sodium environment 200 (1993) 244
Miyahara, A., see Tanabe, T. 200 (1993) 120
Miyake, M., see Shirasu, Y. 200 (1993) 218
Miyoshi, S., see Nakashima, Y. 200 (1993) 351
Mori, T., K. Akaishi, Y. Kubota, O. Motojima, M. Mushiaki, Y. Funato and Y. Hanaoka, Pumping experiment of water on B and LaB_6 films with an electron beam evaporator 200 (1993) 385
Motojima, O., see Mori, T. 200 (1993) 385
Moutinho, A.M.C., see Escrivão, M.L. 200 (1993) 300
Murdoch, D., see Dinner, P.J. 200 (1993) 332
Mushiaki, M., see Mori, T. 200 (1993) 385

Naito, K., see Matsui, T. 200 (1993) 11
Nakagawa, Y., see Tsuzuki, K. 200 (1993) 291
Nakamura, J., M. Hashimoto, T. Otomo and S. Kawasaki, Effects of oxygen partial pressure on oxidation of Zircaloy 200 (1993) 256
Nakano, T., see Sugai, H. 200 (1993) 403
Nakashima, Y., K. Yatsu, K. Tsuchiya, K. Ohtoshi, M. Shoji, N. Yamaguchi, M. Ichimura, M. Inutake, T. Tamano and S. Miyoshi, Analysis of wall conditioning by using plasma impact desorption in the tandem mirror GAMMA 10 200 (1993) 351
Noguchi, H., see Tanabe, T. 200 (1993) 120
Nygren, R., see Suzuki, S. 200 (1993) 265
Nyström, A.-L., see Wadman, B. 200 (1993) 207

Ohkawa, M., see Matsui, T. 200 (1993) 11
Ohtoshi, K., see Nakashima, Y. 200 (1993) 351
Orchard, J.C., A.T. Peacock and G. Saibene, JET experience in recovery from large air leak incidents 200 (1993) 395
Osetsky, Yu.N., see Kapinos, V.G. 200 (1993) 108
Otomo, T., see Nakamura, J. 200 (1993) 256

Pawel, S.J., Type 304L stainless steel corrosion in molten lithium hydride as a function of temperature 200 (1993) 184
Peacock, A.T., see Orchard, J.C. 200 (1993) 395
Perujo, A., see Forcey, K.S. 200 (1993) 417
Peter, S., R. Pintaske, G. Hecht and F. Richter, Ion energy distribution measurements in glow discharges 200 (1993) 412
Pettersson, H., see Wadman, B. 200 (1993) 207
Philipps, V., E. Vietzke, M. Erdweg and J. Winter, Photon-induced impurity production in TEXTOR 200 (1993) 355
Pialoux, A., Etude de la nitruration carbothermique du dioxyde de hafnium par diffraction X à haute température 200 (1993) 1
Pillai, C.G.S. and A.M. George, Thermal conductivity of uranium dioxide 200 (1993) 78
Pinsonneault, D., see Terreault, B. 200 (1993) 50
Pintaske, R., see Peter, S. 200 (1993) 412
Popov, A.M., see Feoktistov, V.A. 200 (1993) 309
Popova, L.I., see Atanassova, E.D. 200 (1993) 421
Popovicheva, O.B., see Feoktistov, V.A. 200 (1993) 309
Prager, S.C., see Den Hartog, D.J. 200 (1993) 177
Pratt, J.N., see Gürler, R. 200 (1993) 16

Quirion, B., see Terreault, B. 200 (1993) 50

Rakhimov, A.T., see Feoktistov, V.A. 200 (1993) 309
Rakhimova, T.V., see Feoktistov, V.A. 200 (1993) 309
Ratel, G., see Terreault, B. 200 (1993) 50
Ray, S.K., A.K. Bhaduri and P. Rodriguez, New toughness parameters from the tensile test – A first report 200 (1993) 70
Reiter, F., see Forcey, K.S. 200 (1993) 417
Richard, N., see Terreault, B. 200 (1993) 50
Richter, F., see Peter, S. 200 (1993) 412
Rodriguez, P., see Ray, S.K. 200 (1993) 70
Rodriguez, P., see Mishra, M.P. 200 (1993) 244
Ross, G.G., see Terreault, B. 200 (1993) 50
Rudling, P., see Wadman, B. 200 (1993) 207

Sabioni, A.C.S., F.S. Lameiras and P.E. Cardoso, Cation self-diffusion in $(Th–5\%U)O_2$ 200 (1993) 144
Saibene, G., see Orchard, J.C. 200 (1993) 395
Samant, M.S., S.R. Bharadwaj, A.S. Kerkar and S.R. Dharwadkar, The standard free energy of formation of $ZrMo_2O_8$ by the transpiration method 200 (1993) 157
Sarkissian, A., see Terreault, B. 200 (1993) 50
Sasaki, R., see Matsui, T. 200 (1993) 11
Schram, D.C., see de Graaf, M.J. 200 (1993) 380
Schram, D.C., see Buuron, A.J.M. 200 (1993) 430
Schultz, R.J., see Hood, G.M. 200 (1993) 141
Seith, B., see Mishra, M.P. 200 (1993) 244
Severens, R., see de Graaf, M.J. 200 (1993) 380
Sharkawy, S.W., Z. Xia and Z. Szklarska-Smialowska, Stress corrosion cracking susceptibility and some electrochemical characteristics of Inconel X-750 in lithiated water at 350°C 200 (1993) 82
Shimada, S., see Etoh, Y. 200 (1993) 59
Shimizu, H., see Tanabe, T. 200 (1993) 120
Shin, K., see Takagi, I. 200 (1993) 223
Shirasu, Y., S. Yamanaka and M. Miyake, Thermodynamic analysis of hydrogen solubility in graphite 200 (1993) 218
Shoji, M., see Nakashima, Y. 200 (1993) 351
Smirnov, A.V., see Kapinos, V.G. 200 (1993) 108
Smith, H.D. and D.L. Baldwin, An investigation of thermal release of carbon-14 from PWR Zircaloy spent fuel cladding 200 (1993) 128

Sohn, D.-S., see Song, K.W. 200 (1993) 41
Sonato, P., S. Vitturi and G. Zollino, Vacuum and gas handling systems integration in the RFX fusion experiment 200 (1993) 337
Song, K.W., D.-S. Sohn and W.K. Choo, Effects of sintering processes on the duplex grain structure of UO_2 200 (1993) 41
Stansfield, B.L., see Terreault, B. 200 (1993) 50
Stoneking, M.R., see Den Hartog, D.J. 200 (1993) 177
Sugai, H., M. Yamage, Y. Hikosaka, T. Nakano and H. Toyoda, Plasma-assisted surface modification and radical diagnostics 200 (1993) 403
Suzuki, S., J.F. Crawford, J.T. Bradley III, J.M. Gahl and R. Nygren, Experimental study of pulse plasma heat flux absorption and ablation during the simulation of a tokamak plasma disruption 200 (1993) 265
Szklarska-Smialowska, Z., see Sharkawy, S.W. 200 (1993) 82

Tabares, F.L., see de la Cal, E. 200 (1993) 426
Takagi, I., H. Kariyama, K. Shin and K. Higashi, Depth profiles of trapped deuterium in nickel bombarded with helium-3 200 (1993) 223
Tamano, T., see Nakashima, Y. 200 (1993) 351
Tanabe, T., M. Fujine, H. Noguchi, Y. Yagi, Y. Hirano, H. Shimizu, M. Akiba, M. Araki, Y. Kubota and A. Miyahara, High heat load test of molybdenum 200 (1993) 120
Terreault, B., C. Boucher, R. Décoste, H.G. Esser, B.C. Gregory, E. Haddad, C. Liu-Hinz, H.H. Mai, G.G. Ross, A. Sarkissian, B.L. Stansfield, D. Michaud, P. Brooker, A. Côté, D. Pinsonneault, B. Quirion, G. Ratel, N. Richard and D. Thériault, Impurities in TdeV with and without conditioning by trimethylboron/helium glow discharge 200 (1993) 50
Thériault, D., see Terreault, B. 200 (1993) 50
Toyoda, H., see Sugai, H. 200 (1993) 403
Tsuchiya, K., see Nakashima, Y. 200 (1993) 351
Tsukada, T., see Tsuzuki, K. 200 (1993) 291
Tsuzuki, K., T. Banno, A. Kinbara, Y. Nakagawa and T. Tsukada, Measurements of distribution of self-bias potential on an RF-plane electrode in plasma etching devices 200 (1993) 291

Usmar, S.G., see Wright, R.N. 200 (1993) 200

van Delft, F.C.M.J.M. and J.B. Giesbers, The etch mechanisms of magnetic materials in an HCl plasma 200 (1993) 366
van de Sande, M.J.F., see de Graaf, M.J. 200 (1993) 380
van de Sanden, M.C.M., see de Graaf, M.J. 200 (1993) 380
van de Sanden, M.C.M., see Buuron, A.J.M. 200 (1993) 430
Van Siclen, C.D.W., see Wright, R.N. 200 (1993) 200
Venkataramani, N., A. Conte, F. Ghezzi, G. Bonizzoni and C. Boffito, Poisoning and saturation of St 737 getter alloy in the conversion of isotopic waters to isotopic hydrogen 200 (1993) 343
Vietzke, E., see Philipps, V. 200 (1993) 355
Vitturi, S., see Sonato, P. 200 (1993) 337

Wadman, B., H.-O. Andrén, A.-L. Nyström, P. Rudling and H. Pettersson, Microstructural influence on uniform corrosion of Zircaloy nuclear fuel claddings 200 (1993) 207
Wallura, E., see Coad, J.P. 200 (1993) 389
Weise, G., see Kaltofen, R. 200 (1993) 375
Weschenfelder, F., see Coad, J.P. 200 (1993) 360
Wienhold, P., see Coad, J.P. 200 (1993) 360
Wilhelm, R., Characterization of plasma near surfaces 200 (1993) 273
Wilhelm, R., see Coad, J.P. 200 (1993) 360
Winter, J., see Philipps, V. 200 (1993) 355
Wright, R.N., C.D.W. Van Siclen and S.G. Usmar, Enhanced helium bubble diffusion in aluminum containing a liquid metal impurity 200 (1993) 200

Xia, Z., see Sharkawy, S.W. 200 (1993) 82

Yagi, Y., see Tanabe, T. 200 (1993) 120
Yamage, M., see Sugai, H. 200 (1993) 403
Yamaguchi, N., see Nakashima, Y. 200 (1993) 351
Yamanaka, S., see Shirasu, Y. 200 (1993) 218
Yatsu, K., see Nakashima, Y. 200 (1993) 351

Zakharov, A.A., see Kapinos, V.G. 200 (1993) 108
Zollino, G., see Sonato, P. 200 (1993) 337

Journal of Nuclear Materials 200 (1993) 439–447
North-Holland

journal of nuclear materials

Subject index

Aluminum, Aluminum Alloys and Compounds
Enhanced helium bubble diffusion in aluminum containing a liquid metal impurity, R.N. Wright, C.D.W. Van Siclen and S.G. Usmar 200 (1993) 200

Amorphization and Amorphous Materials
Neutron irradiation effects on intermetallic precipitates in Zircaloy as a function of fluence, Y. Etoh and S. Shimada 200 (1993) 59
The role of the high-energy cascade thermal stage in local ordering of an amorphous metal, V.G. Kapinos, A.A. Zakharov, Yu.N. Osetsky, A.V. Smirnov and A.M. Bratkovskii 200 (1993) 108

Analytical Instruments and Methods
Impurities in TdeV with and without conditioning by trimethylboron/helium glow discharge, B. Terreault, C. Boucher, R. Décoste, H.G. Esser, B.C. Gregory, E. Haddad, C. Liu-Hinz, H.H. Mai, G.G. Ross, A. Sarkissian, B.L. Stansfield, D. Michaud, P. Brooker, A. Côté, D. Pinsonneault, B. Quirion, G. Ratel, N. Richard and D. Thériault 200 (1993) 50
Monitoring and control of impurities in the primary circuit of the IBR-2 reactor, K. Künstler, H.-J. Lang, H. Heyne, V.D. Ananiev, E.B. Kirpikov and Ju.V. Kulpin 200 (1993) 169
Depth profiles of trapped deuterium in nickel bombarded with helium-3, I. Takagi, H. Kariyama, K. Shin and K. Higashi 200 (1993) 223

Beryllium, Beryllium Alloys and Compounds
JET experience in recovery from large air leak incidents, J.C. Orchard, A.T. Peacock and G. Saibene 200 (1993) 395

Carbon
Etude de la nitruration carbothermique du dioxyde de hafnium par diffraction X à haute température, A. Pialoux 200 (1993) 1
An investigation of thermal release of carbon-14 from PWR Zircaloy spent fuel cladding, H.D. Smith and D.L. Baldwin 200 (1993) 128
Vacuum and gas handling systems integration in the RFX fusion experiment, P. Sonato, S. Vitturi and G. Zollino 200 (1993) 337
Experience with boron-carbide coated target tiles in JET, J.P. Coad, B. Farmery, J. Linke and E. Wallura 200 (1993) 389
Fast deposition of amorphous carbon and silicon layers, A.J.M. Buuron, G.J. Meeusen, J.J. Beulens, M.C.M. van de Sanden and D.C. Schram 200 (1993) 430
Kinetics of hydrocarbon formation in a-C:H film deposition plasmas, E. de la Cal and F.L. Tabares 200 (1993) 426

Cavities *(includes Voids, Holes)*
Void swelling resistance of phosphorus-modified austenitic stainless steels during HFIR irradiation at 300–500°C to 57 dpa, P.J. Maziasz 200 (1993) 90
Enhanced helium bubble diffusion in aluminum containing a liquid metal impurity, R.N. Wright, C.D.W. Van Siclen and S.G. Usmar 200 (1993) 200
Thermodynamic analysis of hydrogen solubility in graphite, Y. Shirasu, S. Yamanaka and M. Miyake 200 (1993) 218

Chemical Reactions *(includes Electrochemical and Thermochemical Reactions)*
Dissolution of the simulated fission-produced Mo–Ru–Rh–Pd alloys in boiling nitric acid solution, T. Matsui, M. Ohkawa, R. Sasaki and K. Naito 200 (1993) 11
Influence de l'oxydation et de l'état structural sur les propriétés thermo-physiques d'un alliage à base de zirconium, P. Archambault, M. Abrudeanu et B. Colleret 200 (1993) 162
Effects of oxygen partial pressure on oxidation of Zircaloy, J. Nakamura, M. Hashimoto, T. Otomo and S. Kawasaki 200 (1993) 256
Optical emission measurement of high-uniformity and high-density O_2 supermagnetron plasma, H. Kinoshita and H. Ikegawa 200 (1993) 296
Low pressure RF discharge in electronegative gases for plasma processing, V.A. Feoktistov, D.V. Lopaev, K.S. Klopovsky,

A.M. Popov, O.B. Popovicheva, A.T. Rakhimov and T.V. Rakhimova 200 (1993) 309
Poisoning and saturation of St 737 getter alloy in the conversion of isotopic waters to isotopic hydrogen, N. Venkataramani, A. Conte, F. Ghezzi, G. Bonizzoni and C. Boffito 200 (1993) 343
The etch mechanisms of magnetic materials in an HCl plasma, F.C.M.J.M. van Delft and J.B. Giesbers 200 (1993) 366
Reactive ion etching of PECVD silicon nitride in SF_6 plasma, F.R. de Almeida, R. Katsuhiro Yamamoto and H.S. Maciel 200 (1993) 371
Influence of low-energy bombardment of an RF magnetron sputtering discharge on texture formation and stress in ZnO films, R. Kaltofen and G. Weise 200 (1993) 375
Hydrogen atom cleaning of archeological artefacts, M.J. de Graaf, R. Severens, M.J.F. van de Sande, M.C.M. van de Sanden, D.C. Schram, H.J.M. Meijers and H. Kars 200 (1993) 380
Pumping experiment of water on B and LaB_6 films with an electron beam evaporator, T. Mori, K. Akaishi, Y. Kubota, O. Motojima, M. Mushiaki, Y. Funato and Y. Hanaoka 200 (1993) 385
JET experience in recovery from large air leak incidents, J.C. Orchard, A.T. Peacock and G. Saibene 200 (1993) 395
Plasma-assisted surface modification and radical diagnostics, H. Sugai, M. Yamage, Y. Hikosaka, T. Nakano and H. Toyoda 200 (1993) 403
Plasma nitridation of thin SiO_2 films: AES, ELS and IR study, E.D. Atanassova and L.I. Popova 200 (1993) 421
Fast deposition of amorphous carbon and silicon layers, A.J.M. Buuron, G.J. Meeusen, J.J. Beulens, M.C.M. van de Sanden and D.C. Schram 200 (1993) 430
Kinetics of hydrocarbon formation in a-C:H film deposition plasmas, E. de la Cal and F.L. Tabares 200 (1993) 426

Cladding Materials

Neutron irradiation effects on intermetallic precipitates in Zircaloy as a function of fluence, Y. Etoh and S. Shimada 200 (1993) 59
Effects of oxygen partial pressure on oxidation of Zircaloy, J. Nakamura, M. Hashimoto, T. Otomo and S. Kawasaki 200 (1993) 256

Compatibility and Corrosion *(includes Stress Corrosion Cracking)*

Stress corrosion cracking susceptibility and some electrochemical characteristics of Inconel X-750 in lithiated water at 350°C, S.W. Sharkawy, Z. Xia and Z. Szklarska-Smialowska 200 (1993) 82
Chromium diffusion in α-zirconium, Zircaloy-2 and Zr–2.5Nb, G.M. Hood and R.J. Schultz 200 (1993) 141
Type 304L stainless steel corrosion in molten lithium hydride as a function of temperature, S.J. Pawel 200 (1993) 184
Microstructural influence on uniform corrosion of Zircaloy nuclear fuel claddings, B. Wadman, H.-O. Andrén, A.-L. Nyström, P. Rudling and H. Pettersson 200 (1993) 207

Copper, Copper Alloys and Compounds

Irradiation creep of 20% cold-worked copper, P. Jung 200 (1993) 138
Planar magnetron glow discharge on copper – The Thornton relation revisited, M.L. Escrivão, A.M.C. Moutinho and M.J.P. Maneira 200 (1993) 300

Creep and Stress Relaxation

Irradiation creep of 20% cold-worked copper, P. Jung 200 (1993) 138
Microstructural aspects of creep–rupture life of Type 316L(N) stainless steel in liquid sodium environment, M.P. Mishra, H.U. Borgstedt, G. Frees, B. Seith, S.L. Mannan and P. Rodriguez 200 (1993) 244

Crystallographic Properties

Etude de la nitruration carbothermique du dioxyde de hafnium par diffraction X à haute température, A. Pialoux 200 (1993) 1

Diffusion

An investigation of thermal release of carbon-14 from PWR Zircaloy spent fuel cladding, H.D. Smith and D.L. Baldwin 200 (1993) 128
Chromium diffusion in α-zirconium, Zircaloy-2 and Zr–2.5Nb, G.M. Hood and R.J. Schultz 200 (1993) 141
Cation self-diffusion in $(Th–5\%U)O_2$, A.C.S. Sabioni, F.S. Lameiras and P.E. Cardoso 200 (1993) 144
Enhanced helium bubble diffusion in aluminum containing a liquid metal impurity, R.N. Wright, C.D.W. Van Siclen and S.G. Usmar 200 (1993) 200
Interdiffusion between U–Zr fuel and selected Fe–Ni–Cr alloys, D.D. Keiser, Jr. and M.A. Dayananda 200 (1993) 229

Divertor Materials

Characterization of plasma near surfaces, R. Wilhelm 200 (1993) 273

Assessment techniques for measurement of target erosion/redeposition in large tokamaks, J.P. Coad, R. Behrisch, L. de Kock, A. Koch, F. Weschenfelder, P. Wienhold and R. Wilhelm 200 (1993) 360

Electron Microscopy

Neutron irradiation effects on intermetallic precipitates in Zircaloy as a function of fluence, Y. Etoh and S. Shimada 200 (1993) 59

An attempt to reduce radioactivity for energy-dispersive X-ray analysis, S. Hamada and K. Hojou 200 (1993) 149

Experimental Techniques

An attempt to reduce radioactivity for energy-dispersive X-ray analysis, S. Hamada and K. Hojou 200 (1993) 149

Fast Reactors

Interdiffusion between U–Zr fuel and selected Fe–Ni–Cr alloys, D.D. Keiser, Jr. and M.A. Dayananda 200 (1993) 229

First Wall Materials

Experimental study of pulse plasma heat flux absorption and ablation during the simulation of a tokamak plasma disruption, S. Suzuki, J.F. Crawford, J.T. Bradley III, J.M. Gahl and R. Nygren 200 (1993) 265

Characterization of plasma near surfaces, R. Wilhelm 200 (1993) 273

Vacuum problems and solutions related to the tritium experiment at JET, K.J. Dietz and the JET Team 200 (1993) 317

Vacuum and gas handling systems integration in the RFX fusion experiment, P. Sonato, S. Vitturi and G. Zollino 200 (1993) 337

Analysis of wall conditioning by using plasma impact desorption in the tandem mirror GAMMA 10, Y. Nakashima, K. Yatsu, K. Tsuchiya, K. Ohtoshi, M. Shoji, N. Yamaguchi, M. Ichimura, M. Inutake, T. Tamano and S. Miyoshi 200 (1993) 351

Photon-induced impurity production in TEXTOR, V. Philipps, E. Vietzke, M. Erdweg and J. Winter 200 (1993) 355

Assessment techniques for measurement of target erosion/redeposition in large tokamaks, J.P. Coad, R. Behrisch, L. de Kock, A. Koch, F. Weschenfelder, P. Wienhold and R. Wilhelm 200 (1993) 360

Experience with boron-carbide coated target tiles in JET, J.P. Coad, B. Farmery, J. Linke and E. Wallura 200 (1993) 389

JET experience in recovery from large air leak incidents, J.C. Orchard, A.T. Peacock and G. Saibene 200 (1993) 395

Fission Products

Dissolution of the simulated fission-produced Mo–Ru–Rh–Pd alloys in boiling nitric acid solution, T. Matsui, M. Ohkawa, R. Sasaki and K. Naito 200 (1993) 11

A computer calculation of the ternary Mo–Pd–Rh phase diagram, R. Gürler and J.N. Pratt 200 (1993) 16

Fission gas release during power bumping at high burnup, M.E. Cunningham, M.D. Freshley and D.D. Lanning 200 (1993) 24

Fracture and Fracture Toughness

New toughness parameters from the tensile test – A first report, S.K. Ray, A.K. Bhaduri and P. Rodriguez 200 (1993) 70

Fuels and Fuel Elements

Fission gas release during power bumping at high burnup, M.E. Cunningham, M.D. Freshley and D.D. Lanning 200 (1993) 24

Neutron irradiation effects on intermetallic precipitates in Zircaloy as a function of fluence, Y. Etoh and S. Shimada 200 (1993) 59

Interdiffusion between U–Zr fuel and selected Fe–Ni–Cr alloys, D.D. Keiser, Jr. and M.A. Dayananda 200 (1993) 229

Fusion Reactors

Impurities in TdeV with and without conditioning by trimethylboron/helium glow discharge, B. Terreault, C. Boucher, R. Décoste, H.G. Esser, B.C. Gregory, E. Haddad, C. Liu-Hinz, H.H. Mai, G.G. Ross, A. Sarkissian, B.L. Stansfield, D. Michaud, P. Brooker, A. Côté, D. Pinsonneault, B. Quirion, G. Ratel, N. Richard and D. Thériault 200 (1993) 50

B_4C solid target boronization of the MST reversed-field pinch, D.J. Den Hartog, M. Cekic, G. Fiksel, S.A. Hokin, R.D. Kendrick, S.C. Prager and M.R. Stoneking 200 (1993) 177

Experimental study of pulse plasma heat flux absorption and ablation during the simulation of a tokamak plasma disruption, S. Suzuki, J.F. Crawford, J.T. Bradley III, J.M. Gahl and R. Nygren 200 (1993) 265

Vacuum problems and solutions related to the tritium experiment at JET, K.J. Dietz and the JET Team 200 (1993) 317

Vacuum pumping requirement considerations for future fusion devices, R.A. Langley and P. LaMarche 200 (1993) 326

Combined cryogenic and mechanical pump for NET torus exhaust, P.J. Dinner, D. Murdoch and M. Iseli 200 (1993) 332
Vacuum and gas handling systems integration in the RFX fusion experiment, P. Sonato, S. Vitturi and G. Zollino 200 (1993) 337
Photon-induced impurity production in TEXTOR, V. Philipps, E. Vietzke, M. Erdweg and J. Winter 200 (1993) 355
Assessment techniques for measurement of target erosion/redeposition in large tokamaks, J.P. Coad, R. Behrisch, L. de Kock, A. Koch, F. Weschenfelder, P. Wienhold and R. Wilhelm 200 (1993) 360
Experience with boron-carbide coated target tiles in JET, J.P. Coad, B. Farmery, J. Linke and E. Wallura 200 (1993) 389
JET experience in recovery from large air leak incidents, J.C. Orchard, A.T. Peacock and G. Saibene 200 (1993) 395
The formation of tritium permeation barriers by CVD, K.S. Forcey, A. Perujo, F. Reiter and P.L. Lolli-Ceroni 200 (1993) 417

Gases *(excludes Hydrogen, Helium and Tritium)* **in Materials**
Fission gas release during power bumping at high burnup, M.E. Cunningham, M.D. Freshley and D.D. Lanning 200 (1993) 24

Helium
Enhanced helium bubble diffusion in aluminum containing a liquid metal impurity, R.N. Wright, C.D.W. Van Siclen and S.G. Usmar 200 (1993) 200

Hydrogen and Hydrides *(includes Deuterium and Deuterides)*
Type 304L stainless steel corrosion in molten lithium hydride as a function of temperature, S.J. Pawel 200 (1993) 184
Thermodynamic analysis of hydrogen solubility in graphite, Y. Shirasu, S. Yamanaka and M. Miyake 200 (1993) 218
Depth profiles of trapped deuterium in nickel bombarded with helium-3, I. Takagi, H. Kariyama, K. Shin and K. Higashi 200 (1993) 223
Poisoning and saturation of St 737 getter alloy in the conversion of isotopic waters to isotopic hydrogen, N. Venkataramani, A. Conte, F. Ghezzi, G. Bonizzoni and C. Boffito 200 (1993) 343
Analysis of wall conditioning by using plasma impact desorption in the tandem mirror GAMMA 10, Y. Nakashima, K. Yatsu, K. Tsuchiya, K. Ohtoshi, M. Shoji, N. Yamaguchi, M. Ichimura, M. Inutake, T. Tamano and S. Miyoshi 200 (1993) 351
Hydrogen atom cleaning of archeological artefacts, M.J. de Graaf, R. Severens, M.J.F. van de Sande, M.C.M. van de Sanden, D.C. Schram, H.J.M. Meijers and H. Kars 200 (1993) 380
Ion energy distribution measurements in glow discharges, S. Peter, R. Pintaske, G. Hecht and F. Richter 200 (1993) 412
Kinetics of hydrocarbon formation in a-C:H film deposition plasmas, E. de la Cal and F.L. Tabares 200 (1993) 426

Impurities
Monitoring and control of impurities in the primary circuit of the IBR-2 reactor, K. Künstler, H.-J. Lang, H. Heyne, V.D. Ananiev, E.B. Kirpikov and Ju.V. Kulpin 200 (1993) 169
B_4C solid target boronization of the MST reversed-field pinch, D.J. Den Hartog, M. Cekic, G. Fiksel, S.A. Hokin, R.D. Kendrick, S.C. Prager and M.R. Stoneking 200 (1993) 177
Enhanced helium bubble diffusion in aluminum containing a liquid metal impurity, R.N. Wright, C.D.W. Van Siclen and S.G. Usmar 200 (1993) 200
Photon-induced impurity production in TEXTOR, V. Philipps, E. Vietzke, M. Erdweg and J. Winter 200 (1993) 355

Iron Irradiation
Irradiation creep of 20% cold-worked copper, P. Jung 200 (1993) 138
Ion energy distribution measurements in glow discharges, S. Peter, R. Pintaske, G. Hecht and F. Richter 200 (1993) 412
Fast deposition of amorphous carbon and silicon layers, A.J.M. Buuron, G.J. Meeusen, J.J. Beulens, M.C.M. van de Sanden and D.C. Schram 200 (1993) 430

Iron, Iron Alloys *(excludes Steels)* **and Compounds**
The etch mechanisms of magnetic materials in an HCl plasma, F.C.M.J.M. van Delft and J.B. Giesbers 200 (1993) 366

Kinetics
Effects of oxygen partial pressure on oxidation of Zircaloy, J. Nakamura, M. Hashimoto, T. Otomo and S. Kawasaki 200 (1993) 256

Laser
Laser-driven pulsed emission and plasma formation of Cs_3Sb photocathodes, L. Ding, Y. Chen and Z.Y. Hua 200 (1993) 305

Liquid Metals
Monitoring and control of impurities in the primary circuit of the IBR-2 reactor, K. Künstler, H.-J. Lang, H. Heyne, V.D. Ananiev, E.B. Kirpikov and Ju.V. Kulpin 200 (1993) 169
Type 304L stainless steel corrosion in molten lithium hydride as a function of temperature, S.J. Pawel 200 (1993) 184

Mathematical and Computational Methods
Numerical simulation of RF discharges for plasma processing, W.J. Goedheer and P.M. Meijer 200 (1993) 282

Metals, Alloys and Compounds *(not listed elsewhere)*
Laser-driven pulsed emission and plasma formation of Cs_3Sb photocathodes, L. Ding, Y. Chen and Z.Y. Hua 200 (1993) 305
The etch mechanisms of magnetic materials in an HCl plasma, F.C.M.J.M. van Delft and J.B. Giesbers 200 (1993) 366
Influence of low-energy bombardment of an RF magnetron sputtering discharge on texture formation and stress in ZnO films, R. Kaltofen and G. Weise 200 (1993) 375

Microstructure and Texture *(excludes by Irradiation)*
Microstructural influence on uniform corrosion of Zircaloy nuclear fuel claddings, B. Wadman, H.-O. Andrén, A.-L. Nyström, P. Rudling and H. Pettersson 200 (1993) 207
Microstructural aspects of creep–rupture life of Type 316L(N) stainless steel in liquid sodium environment, M.P. Mishra, H.U. Borgstedt, G. Frees, B. Seith, S.L. Mannan and P. Rodriguez 200 (1993) 244
Influence of low-energy bombardment of an RF magnetron sputtering discharge on texture formation and stress in ZnO films, R. Kaltofen and G. Weise 200 (1993) 375

Molybdenum, Molybdenum Alloys and Compounds
High heat load test of molybdenum, T. Tanabe, M. Fujine, H. Noguchi, Y. Yagi, Y. Hirano, H. Shimizu, M. Akiba, M. Araki, Y. Kubota and A. Miyahara 200 (1993) 120
The standard free energy of formation of $ZrMo_2O_8$ by the transpiration method, M.S. Samant, S.R. Bharadwaj, A.S. Kerkar and S.R. Dharwadkar 200 (1993) 157

Neutron Irradiation
Neutron irradiation effects on intermetallic precipitates in Zircaloy as a function of fluence, Y. Etoh and S. Shimada 200 (1993) 59
Void swelling resistance of phosphorus-modified austenitic stainless steels during HFIR irradiation at 300–500°C to 57 dpa, P.J. Maziasz 200 (1993) 90
An attempt to reduce radioactivity for energy-dispersive X-ray analysis, S. Hamada and K. Hojou 200 (1993) 149

Nickel, Nickel Alloys and Compounds
Stress corrosion cracking susceptibility and some electrochemical characteristics of Inconel X-750 in lithiated water at 350°C, S.W. Sharkawy, Z. Xia and Z. Szklarska-Smialowska 200 (1993) 82
Depth profiles of trapped deuterium in nickel bombarded with helium-3, I. Takagi, H. Kariyama, K. Shin and K. Higashi 200 (1993) 223

Optical Microscopy
Influence de l'oxydation et de l'état structural sur les propriétés thermo-physiques d'un alliage à base de zirconium, P. Archambault, M. Abrudeanu et B. Colleret 200 (1993) 162
Assessment techniques for measurement of target erosion/redeposition in large tokamaks, J.P. Coad, R. Behrisch, L. de Kock, A. Koch, F. Weschenfelder, P. Wienhold and R. Wilhelm 200 (1993) 360

Permeation
Depth profiles of trapped deuterium in nickel bombarded with helium-3, I. Takagi, H. Kariyama, K. Shin and K. Higashi 200 (1993) 223
The formation of tritium permeation barriers by CVD, K.S. Forcey, A. Perujo, F. Reiter and P.L. Lolli-Ceroni 200 (1993) 417

Phase Equilibria *(includes Constitution, Phase Stability, Phase Instability)*
A computer calculation of the ternary Mo–Pd–Rh phase diagram, R. Gürler and J.N. Pratt 200 (1993) 16

Physical Properties *(not listed elsewhere)*
Thermal conductivity of uranium dioxide, C.G.S. Pillai and A.M. George 200 (1993) 78
Optical emission measurement of high-uniformity and high-density O_2 supermagnetron plasma, H. Kinoshita and H. Ikegawa 200 (1993) 296
Planar magnetron glow discharge on copper – The Thornton relation revisited, M.L. Escrivão, A.M.C. Moutinho and M.J.P. Maneira 200 (1993) 300
Low pressure RF discharge in electronegative gases for plasma processing, V.A. Feoktistov, D.V. Lopaev, K.S. Klopovsky, A.M. Popov, O.B. Popovicheva, A.T. Rakhimov and T.V. Rakhimova 200 (1993) 309
Plasma-assisted surface modification and radical diagnostics, H. Sugai, M. Ya-

mage, Y. Hikosaka, T. Nakano and H. Toyoda 200 (1993) 403
Ion energy distribution measurements in glow discharges, S. Peter, R. Pintaske, G. Hecht and F. Richter 200 (1993) 412
Plasma nitridation of thin SiO_2 films: AES, ELS and IR study, E.D. Atanassova and L.I. Popova 200 (1993) 421

Plasma–Materials Interaction

Impurities in TdeV with and without conditioning by trimethylboron/helium glow discharge, B. Terreault, C. Boucher, R. Décoste, H.G. Esser, B.C. Gregory, E. Haddad, C. Liu-Hinz, H.H. Mai, G.G. Ross, A. Sarkissian, B.L. Stansfield, D. Michaud, P. Brooker, A. Côté, D. Pinsonneault, B. Quirion, G. Ratel, N. Richard and D. Thériault 200 (1993) 50
High heat load test of molybdenum, T. Tanabe, M. Fujine, H. Noguchi, Y. Yagi, Y. Hirano, H. Shimizu, M. Akiba, M. Araki, Y. Kubota and A. Miyahara 200 (1993) 120
B_4C solid target boronization of the MST reversed-field pinch, D.J. Den Hartog, M. Cekic, G. Fiksel, S.A. Hokin, R.D. Kendrick, S.C. Prager and M.R. Stoneking 200 (1993) 177
Depth profiles of trapped deuterium in nickel bombarded with helium-3, I. Takagi, H. Kariyama, K. Shin and K. Higashi 200 (1993) 223
Experimental study of pulse plasma heat flux absorption and ablation during the simulation of a tokamak plasma disruption, S. Suzuki, J.F. Crawford, J.T. Bradley III, J.M. Gahl and R. Nygren 200 (1993) 265
Characterization of plasma near surfaces, R. Wilhelm 200 (1993) 273
Numerical simulation of RF discharges for plasma processing, W.J. Goedheer and P.M. Meijer 200 (1993) 282
Measurements of distribution of self-bias potential on an RF-plane electrode in plasma etching devices, K. Tsuzuki, T. Banno, A. Kinbara, Y. Nakagawa and T. Tsukada 200 (1993) 291
Optical emission measurement of high-uniformity and high-density O_2 supermagnetron plasma, H. Kinoshita and H. Ikegawa 200 (1993) 296
Planar magnetron glow discharge on copper – The Thornton relation revisited, M.L. Escrivão, A.M.C. Moutinho and M.J.P. Maneira 200 (1993) 300
Laser-driven pulsed emission and plasma formation of Cs_3Sb photocathodes, L. Ding, Y. Chen and Z.Y. Hua 200 (1993) 305
Low pressure RF discharge in electronegative gases for plasma processing, V.A. Feoktistov, D.V. Lopaev, K.S. Klopovsky, A.M. Popov, O.B. Popovicheva, A.T. Rakhimov and T.V. Rakhimova 200 (1993) 309
Analysis of wall conditioning by using plasma impact desorption in the tandem mirror GAMMA 10, Y. Nakashima, K. Yatsu, K. Tsuchiya, K. Ohtoshi, M. Shoji, N. Yamaguchi, M. Ichimura, M. Inutake, T. Tamano and S. Miyoshi 200 (1993) 351
Assessment techniques for measurement of target erosion/redeposition in large tokamaks, J.P. Coad, R. Behrisch, L. de Kock, A. Koch, F. Weschenfelder, P. Wienhold and R. Wilhelm 200 (1993) 360
The etch mechanisms of magnetic materials in an HCl plasma, F.C.M.J.M. van Delft and J.B. Giesbers 200 (1993) 366
Reactive ion etching of PECVD silicon nitride in SF_6 plasma, F.R. de Almeida, R. Katsuhiro Yamamoto and H.S. Maciel 200 (1993) 371
Influence of low-energy bombardment of an RF magnetron sputtering discharge on texture formation and stress in ZnO films, R. Kaltofen and G. Weise 200 (1993) 375
Hydrogen atom cleaning of archeological artefacts, M.J. de Graaf, R. Severens, M.J.F. van de Sande, M.C.M. van de Sanden, D.C. Schram, H.J.M. Meijers and H. Kars 200 (1993) 380
Experience with boron-carbide coated target tiles in JET, J.P. Coad, B. Farmery, J. Linke and E. Wallura 200 (1993) 389
Plasma-assisted surface modification and radical diagnostics, H. Sugai, M. Yamage, Y. Hikosaka, T. Nakano and H. Toyoda 200 (1993) 403
Ion energy distribution measurements in glow discharges, S. Peter, R. Pintaske, G. Hecht and F. Richter 200 (1993) 412
Plasma nitridation of thin SiO_2 films: AES, ELS and IR study, E.D. Atanassova and L.I. Popova 200 (1993) 421
Fast deposition of amorphous carbon and silicon layers, A.J.M. Buuron, G.J. Meeusen, J.J. Beulens, M.C.M. van de Sanden and D.C. Schram 200 (1993) 430
Kinetics of hydrocarbon formation in a-C:H film deposition plasmas, E. de la Cal and F.L. Tabares 200 (1993) 426

Plasma Properties *(includes Plasma Disruption)*

B_4C solid target boronization of the MST reversed-field pinch, D.J. Den Hartog, M. Cekic, G. Fiksel, S.A. Hokin, R.D.

Kendrick, S.C. Prager and M.R. Stoneking 200 (1993) 177
Numerical simulation of RF discharges for plasma processing, W.J. Goedheer and P.M. Meijer 200 (1993) 282
Measurements of distribution of self-bias potential on an RF-plane electrode in plasma etching devices, K. Tsuzuki, T. Banno, A. Kinbara, Y. Nakagawa and T. Tsukada 200 (1993) 291
Optical emission measurement of high-uniformity and high-density O_2 supermagnetron plasma, H. Kinoshita and H. Ikegawa 200 (1993) 296

Polymers
Reactive ion etching of PECVD silicon nitride in SF_6 plasma, F.R. de Almeida, R. Katsuhiro Yamamoto and H.S. Maciel 200 (1993) 371

Pores *(includes Porosity, Fabrication Pores)*
Effects of sintering processes on the duplex grain structure of UO_2, K.W. Song, D.-S. Sohn and W.K. Choo 200 (1993) 41

Powder Processes and Products
Effects of sintering processes on the duplex grain structure of UO_2, K.W. Song, D.-S. Sohn and W.K. Choo 200 (1993) 41

Processing
Low pressure RF discharge in electronegative gases for plasma processing, V.A. Feoktistov, D.V. Lopaev, K.S. Klopovsky, A.M. Popov, O.B. Popovicheva, A.T. Rakhimov and T.V. Rakhimova 200 (1993) 309

Radiation Effects: Atomic Defects
The role of the high-energy cascade thermal stage in local ordering of an amorphous metal, V.G. Kapinos, A.A. Zakharov, Yu.N. Osetsky, A.V. Smirnov and A.M. Bratkovskii 200 (1993) 108

Redeposition
Assessment techniques for measurement of target erosion/redeposition in large tokamaks, J.P. Coad, R. Behrisch, L. de Kock, A. Koch, F. Weschenfelder, P. Wienhold and R. Wilhelm 200 (1993) 360

Reprocessing
Dissolution of the simulated fission-produced Mo–Ru–Rh–Pd alloys in boiling nitric acid solution, T. Matsui, M. Ohkawa, R. Sasaki and K. Naito 200 (1993) 11
Hydrogen atom cleaning of archeological artefacts, M.J. de Graaf, R. Severens, M.J.F. van de Sande, M.C.M. van de Sanden, D.C. Schram, H.J.M. Meijers and H. Kars 200 (1993) 380
Experience with boron-carbide coated target tiles in JET, J.P. Coad, B. Farmery, J. Linke and E. Wallura 200 (1993) 389

Silicon and Silicon Compounds
Reactive ion etching of PECVD silicon nitride in SF_6 plasma, F.R. de Almeida, R. Katsuhiro Yamamoto and H.S. Maciel 200 (1993) 371
Plasma nitridation of thin SiO_2 films: AES, ELS and IR study, E.D. Atanassova and L.I. Popova 200 (1993) 421

Steels, Austenitic
Void swelling resistance of phosphorus-modified austenitic stainless steels during HFIR irradiation at 300–500°C to 57 dpa, P.J. Maziasz 200 (1993) 90
Type 304L stainless steel corrosion in molten lithium hydride as a function of temperature, S.J. Pawel 200 (1993) 184
Microstructural aspects of creep–rupture life of Type 316L(N) stainless steel in liquid sodium environment, M.P. Mishra, H.U. Borgstedt, G. Frees, B. Seith, S.L. Mannan and P. Rodriguez 200 (1993) 244
Poisoning and saturation of St 737 getter alloy in the conversion of isotopic waters to isotopic hydrogen, N. Venkataramani, A. Conte, F. Ghezzi, G. Bonizzoni and C. Boffito 200 (1993) 343
The formation of tritium permeation barriers by CVD, K.S. Forcey, A. Perujo, F. Reiter and P.L. Lolli-Ceroni 200 (1993) 417

Surface Effects
Impurities in TdeV with and without conditioning by trimethylboron/helium glow discharge, B. Terreault, C. Boucher, R. Décoste, H.G. Esser, B.C. Gregory, E. Haddad, C. Liu-Hinz, H.H. Mai, G.G. Ross, A. Sarkissian, B.L. Stansfield, D. Michaud, P. Brooker, A. Côté, D. Pinsonneault, B. Quirion, G. Ratel, N. Richard and D. Thériault 200 (1993) 50
Characterization of plasma near surfaces, R. Wilhelm 200 (1993) 273
Measurements of distribution of self-bias potential on an RF-plane electrode in plasma etching devices, K. Tsuzuki, T. Banno, A. Kinbara, Y. Nakagawa and T. Tsukada 200 (1993) 291

Planar magnetron glow discharge on copper – The Thornton relation revisited, M.L. Escrivão, A.M.C. Moutinho and M.J.P. Maneira 200 (1993) 300
Laser-driven pulsed emission and plasma formation of Cs_3Sb photocathodes, L. Ding, Y. Chen and Z.Y. Hua 200 (1993) 305
Analysis of wall conditioning by using plasma impact desorption in the tandem mirror GAMMA 10, Y. Nakashima, K. Yatsu, K. Tsuchiya, K. Ohtoshi, M. Shoji, N. Yamaguchi, M. Ichimura, M. Inutake, T. Tamano and S. Miyoshi 200 (1993) 351
Photon-induced impurity production in TEXTOR, V. Philipps, E. Vietzke, M. Erdweg and J. Winter 200 (1993) 355
Pumping experiment of water on B and LaB_6 films with an electron beam evaporator, T. Mori, K. Akaishi, Y. Kubota, O. Motojima, M. Mushiaki, Y. Funato and Y. Hanaoka 200 (1993) 385
Plasma-assisted surface modification and radical diagnostics, H. Sugai, M. Yamage, Y. Hikosaka, T. Nakano and H. Toyoda 200 (1993) 403
Plasma nitridation of thin SiO_2 films: AES, ELS and IR study, E.D. Atanassova and L.I. Popova 200 (1993) 421

Swelling
Void swelling resistance of phosphorus-modified austenitic stainless steels during HFIR irradiation at 300–500°C to 57 dpa, P.J. Maziasz 200 (1993) 90

Theory and Modelling
The role of the high-energy cascade thermal stage in local ordering of an amorphous metal, V.G. Kapinos, A.A. Zakharov, Yu.N. Osetsky, A.V. Smirnov and A.M. Bratkovskii 200 (1993) 108

Thermal Shock
High heat load test of molybdenum, T. Tanabe, M. Fujine, H. Noguchi, Y. Yagi, Y. Hirano, H. Shimizu, M. Akiba, M. Araki, Y. Kubota and A. Miyahara 200 (1993) 120

Thermodynamic Properties
The standard free energy of formation of $ZrMo_2O_8$ by the transpiration method, M.S. Samant, S.R. Bharadwaj, A.S. Kerkar and S.R. Dharwadkar 200 (1993) 157
Thermodynamic analysis of hydrogen solubility in graphite, Y. Shirasu, S. Yamanaka and M. Miyake 200 (1993) 218

Thorium, Thorium Alloys and Compounds
Cation self-diffusion in $(Th–5\%U)O_2$, A.C.S. Sabioni, F.S. Lameiras and P.E. Cardoso 200 (1993) 144

Titanium, Titanium Alloys and Compounds
The formation of tritium permeation barriers by CVD, K.S. Forcey, A. Perujo, F. Reiter and P.L. Lolli-Ceroni 200 (1993) 417

Tritium and Tritides
Vacuum problems and solutions related to the tritium experiment at JET, K.J. Dietz and the JET Team 200 (1993) 317
Vacuum pumping requirement considerations for future fusion devices, R.A. Langley and P. LaMarche 200 (1993) 326
Combined cryogenic and mechanical pump for NET torus exhaust, P.J. Dinner, D. Murdoch and M. Iseli 200 (1993) 332
The formation of tritium permeation barriers by CVD, K.S. Forcey, A. Perujo, F. Reiter and P.L. Lolli-Ceroni 200 (1993) 417

Uranium, Uranium Alloys and Compounds
Fission gas release during power bumping at high burnup, M.E. Cunningham, M.D. Freshley and D.D. Lanning 200 (1993) 24
Effects of sintering processes on the duplex grain structure of UO_2, K.W. Song, D.-S. Sohn and W.K. Choo 200 (1993) 41
Thermal conductivity of uranium dioxide, C.G.S. Pillai and A.M. George 200 (1993) 78
Cation self-diffusion in $(Th–5\%U)O_2$, A.C.S. Sabioni, F.S. Lameiras and P.E. Cardoso 200 (1993) 144
Interdiffusion between U–Zr fuel and selected Fe–Ni–Cr alloys, D.D. Keiser, Jr. and M.A. Dayananda 200 (1993) 229

Wastes
An investigation of thermal release of carbon-14 from PWR Zircaloy spent fuel cladding, H.D. Smith and D.L. Baldwin 200 (1993) 128

Zirconium, Zirconium Alloys and Compounds
Neutron irradiation effects on intermetallic precipitates in Zircaloy as a function of fluence, Y. Etoh and S. Shimada 200 (1993) 59
An investigation of thermal release of carbon-14 from PWR Zircaloy spent fuel cladding, H.D. Smith and D.L. Baldwin 200 (1993) 128
Chromium diffusion in α-zirconium, Zircaloy-2 and Zr–2.5Nb, G.M. Hood and R.J. Schultz 200 (1993) 141
The standard free energy of formation of $ZrMo_2O_8$ by the transpiration method, M.S. Samant, S.R. Bharadwaj, A.S. Kerkar and S.R. Dharwadkar 200 (1993) 157

Influence de l'oxydation et de l'état structural sur les propriétés thermo-physiques d'un alliage à base de zirconium, P. Archambault, M. Abrudeanu et B. Colleret 200 (1993) 162
Microstructural influence on uniform corrosion of Zircaloy nuclear fuel claddings, B. Wadman, H.-O. Andrén, A.-L. Nyström, P. Rudling and H. Pettersson 200 (1993) 207
Effects of oxygen partial pressure on oxidation of Zircaloy, J. Nakamura, M. Hashimoto, T. Otomo and S. Kawasaki 200 (1993) 256